

# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

## F A C T      S H E E T (pursuant to NAC 445A.236)

**Permittee Name:** Utilities Inc. of Central Nevada (UICN)  
1240 East State Street Suite 115  
Pahrump, Nevada 89048

**Permit Number:** NEV89063

### **Description of Discharge:**

**Location:** The Utilities Inc. of Central Nevada Wastewater Treatment Plant # 3 is located on Happy Canyon Street - Calvada, near the Willow Creek Championship Golf Course in Pahrump, Nye County, Nevada. Section 22, T. 20S, R. 53E. MDB&M. Latitude: 36E12'00"N; Longitude 116E00'30"W. Disposal is via reuse irrigation at the adjacent 18-hole Willow Creek golf course and driving range and the 18 hole executive Lakeview golf course (Calvada); winter effluent storage is in both golf course=s lakes, with Willow Creek storing the majority of the effluent.

**Characteristics:** This permit renewal is for the 1.5 MGD UICN Plant #3, which is a sequencing batch reactor (SBR) treatment system manufactured by Aquatech. Wastewater generated in the central Pahrump service area is domestic, with some commercial sewage, and is discharged into the headworks. The headworks, which includes an automatic fine screening system, a vortex grit removal system, and a flow meter, is enclosed in a building, with a SYNECO dry air oxidizing scrubbers to prevent odors. From the headworks the influent is discharged into flow equalization basins which are also enclosed in an enameled steel building with odor scrubbers to handle odors which have been a source of complaints in the past few years of operation. From there wastewater is pumped into the first of the three SBR tanks (currently only two are in use) where the wastewater is treated and then discharged to a post stabilization tank and through a series of tertiary sand filters. After filtration the effluent is disinfected with UV and then chlorinated prior to discharge via gravity flow to the golf courses= lakes for reuse or for winter storage. Waste activated sludge is pumped from the SBRs to the aerobic sludge digester and from there to the sludge handling building where it is dewatered via a Somat system with odor control scrubbers to remove hydrogen sulfide. Dewatered sludge is removed by truck to the Pahrump landfill for disposal .

**Flow:** The facility has a 30-Day Average flow limitation of 1.50 MGD. Influent flow is measured at the headworks via a flow meter. Effluent flow is also measured prior to discharge to the effluent storage lakes.

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**Limitations:** Influent Flow, CBOD<sub>5</sub>, and Total Suspended Solids (TSS) are required to be sampled at the headworks, and effluent Flow, CBOD<sub>5</sub>, TSS, Ammonia as N, Nitrate as N, Total Nitrogen as N, pH after treatment, and Fecal Coliform after filtration and disinfection prior to discharge to the golf course effluent storage ponds. CBOD<sub>5</sub> and TSS limits are 10 mg/l (30-day ave.) and 15 mg/l (Daily max.), with limits for pH of 6.0 - 9.0. SU, Total Nitrogen as N 10 mg/l, and fecal coliform 2.2 CFU/100 ml. Ammonia as N, and nitrate as N are also monitored.

**General:** UICN manages and operates this tertiary SBR treatment facility (Plant # 3) which is located on the Championship Willow Creek Golf Course (formerly Calvada Valley subdivision and golf course) in Pahrump, Nevada. Effluent is blended with groundwater in the golf course ponds to meet irrigation requirements. Monitoring wells are installed adjacent to the effluent storage lakes and within the Willow Creek golf course.

No negative environmental impacts are anticipated as a result of the issuance of this permit.

**Receiving Water Characteristics:** Receiving waters are the groundwaters of the State of Nevada. Based on historic data, groundwater in the area meets drinking water quality. Depth to groundwater varies between 38 feet and approximately 100 feet.

**Procedures for Public Comment:**

The Notice of the Division's intent to reissue the permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal** and **Pahrump Valley News** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of newspaper publication of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

#### **Proposed Determination**

The Division has made the tentative determination to renew the proposed permit for a five (5) year period.

#### **Schedule of Compliance and Special Conditions**

- a. Any revisions to the Operations and Maintenance Manual (O & M) and or to the Effluent Management Plan (EMP) shall be submitted to the Division by July 30, 2008. If sludge is disposed to locations other than approved landfill sites, said plan must also address Part 40 CFR Section 503 of the federal regulations.

#### **Rationale For Permit Requirements**

Monitoring and reporting are required to assess the level of treatment being provided and to ensure that groundwaters of the State are not degraded. Required parameters are monitored and reported to ensure effluent reuse requirements are maintained.

Prepared by: Icyll Mulligan  
February 2008